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Dynamic Search: INPADOC/Family and Legal Status, Derwent World Patents Index

Records for: *PN=US 5450999*

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1. **2/19/1 (Item 1 from file: 351)**

```
010434722      **Image available**
WPI Acc No: 1995-336042/199543
XRPX Acc No: N95-251952
```
  **VAV air conditioning system controller for office building
  and commercial establishment - has fuzzy logic control mechanism for
  implementing set of fuzzy logic ruled-based instructions in generating
  damper motor operation signal**
```
Patent Assignee: EMS CONTROL SYSTEMS INT (EMSC-N)
Inventor: SCHOLTEN A J; SCHOLTEN J H A
Number of Countries: 001  Number of Patents: 001
Patent Family:
Patent No      Kind   Date      Applicat No     Kind   Date       Week
US 5450999      A     19950919  US 94278616      A     19940721  199543  B
Priority Applications (No Type Date): US 94278616 A 19940721
Patent Details:
Patent No  Kind Lan Pg   Main IPC       Filing Notes
US 5450999      A       22 F24F-007/00
Abstract (Basic): US 5450999 A
```
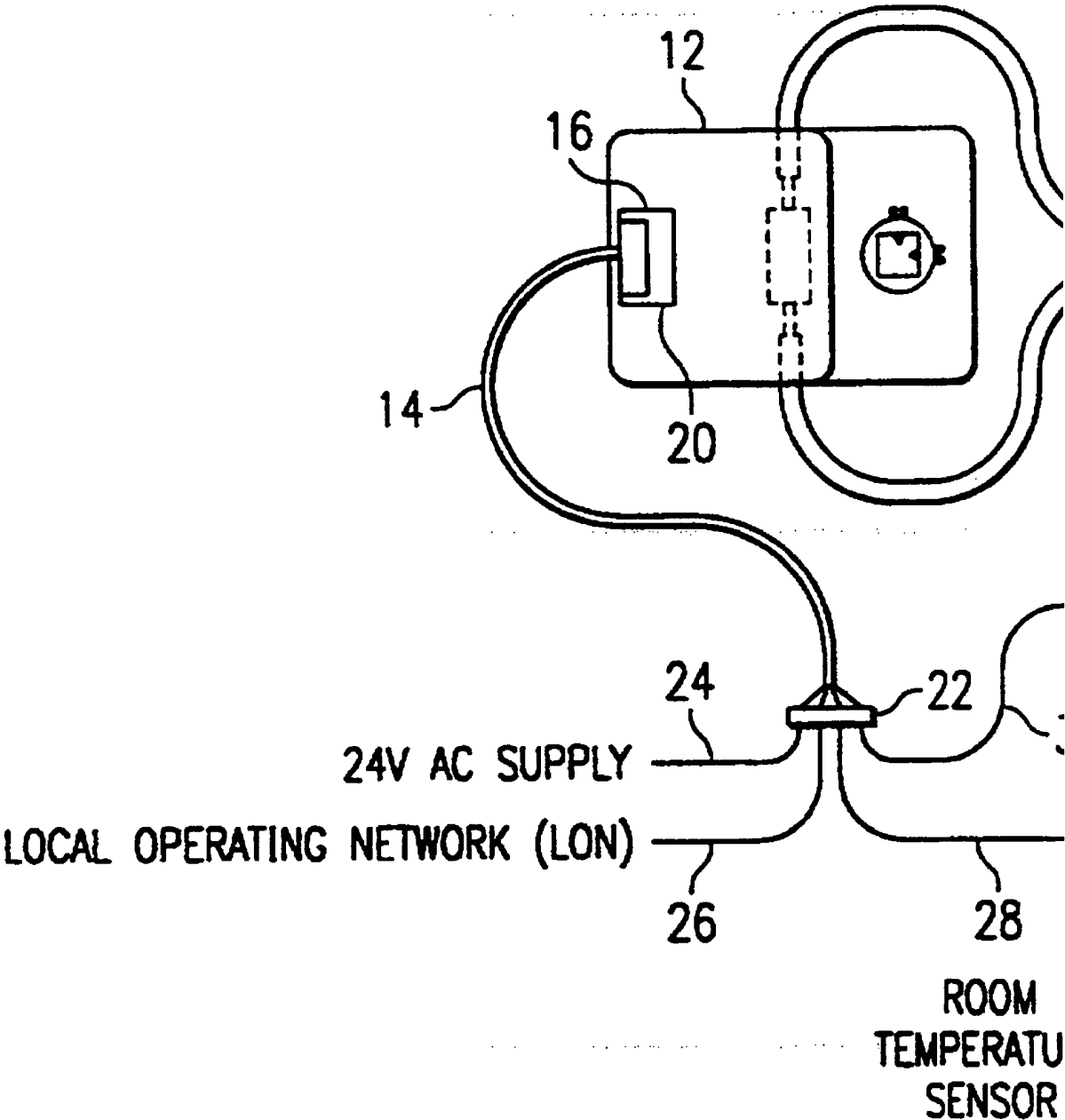
        The system includes a temperature sensing circuit for generating a
temperature process value. A setpoint determining circuit establishes a
temperature set point. An airflow signal circuit generates an airflow
setpoint in response to the temperature process value and setpoint. A
flow sensing circuit generates a flow process value in response to a
predetermined set of flow sensing inputs.
        A damper control circuit generates a damper motor operation signal
to control a damper motor, in response to the flow process value and
the airflow setpoint. The damper control circuit has a fuzzy logic
control mechanism for implementing a set of fuzzy logic rule-based
instructions in generating the damper motor operating signal.
        ADVANTAGE - Effectively operable with other aspects of
environmental management system. Simple to setup and use. Uses simple
control instruction. Integrates fuzzy logic control system. Small size
system.
        Dwg.1/9

12

16

14

20

24

22

24V AC SUPPLY

LOCAL OPERATING NETWORK (LON)

26

28

ROOM
TEMPERATU
SENSOR

Title Terms: AIR; CONDITION; SYSTEM; CONTROL; OFFICE; BUILD; COMMERCIAL;
  ESTABLISH; FUZZ; LOGIC; CONTROL; MECHANISM; IMPLEMENT; SET; FUZZ; LOGIC;
  RULE; BASED; INSTRUCTION; GENERATE; DAMP; MOTOR; OPERATE; SIGNAL
Index Terms/Additional Words: AIR; CONDITION; SYSTE
Derwent Class: Q74; T01; X27
International Patent Class (Main): F24F-007/00
File Segment: EPI; EngPI
Manual Codes (EPI/S-X): T01-J08A; T01-J16B; X27-E01B

☐2.

2/19/2   (Item 2 from file: 345)

12672443
Basic Patent (No,Kind,Date): US 5450999 A 950919

PATENT FAMILY:
UNITED STATES OF AMERICA (US)
   Patent (No,Kind,Date): US 5450999 A   950919
      VARIABLE AIR VOLUME ENVIRONMENTAL MANAGEMENT SYSTEM INCLUDING A FUZZY
        LOGIC CONTROL SYSTEM (English)
   Patent Assignee: EMS CONTROL SYSTEMS INTERNATIO (AU)
   Author (Inventor): SCHOLTEN JEAN H A (AU); SCHOLTEN ANNO J (AU)
   Priority (No,Kind,Date): US 278616 A   940721
   Applic (No,Kind,Date): US 278616 A   940721
   National Class: * 236049300; 236078000D; 454258000
   IPC: * F24F-007/00
   Derwent WPI Acc No: * G 95-336042; G 95-336042
   Language of Document: English

UNITED STATES OF AMERICA (US)
   Legal Status (No,Type,Date,Code,Text):
      US 5450999   P   940721   US AE   APPLICATION DATA (PATENT)
                                 (APPL. DATA (PATENT))
                                 US 278616 A   940721
      US 5450999   P   940721   US AS02   ASSIGNMENT OF ASSIGNOR'S
                                 INTEREST
                                 EMS CONTROL SYSTEMS INTERNATIONAL 36 HASLER
                                 ROAD OSBORNE PARK, WESTERN AUSTRLIA ;
                                 SCHOLTEN, JEAN HENRY ALBERT : 19940719;
                                 SCHOLTEN, ANNO JOHANNES : 19940719
      US 5450999   P   950919   US A   PATENT
      US 5450999   P   980512   US RF   REISSUE APPLICATION FILED
                                 (REISSUE APPL. FILED)
                                 970918

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